

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Table: \_\_\_\_\_

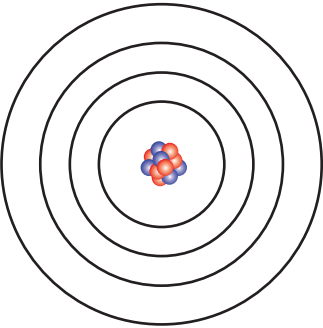
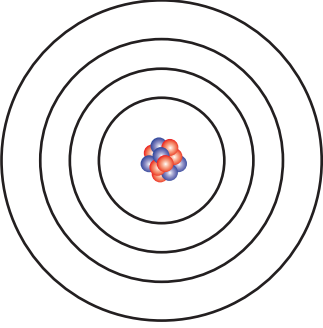
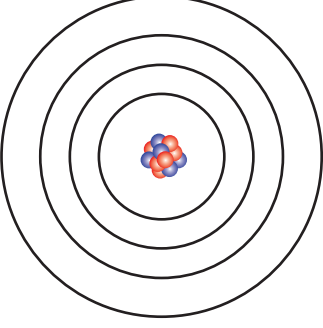
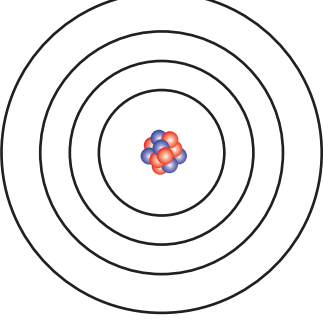
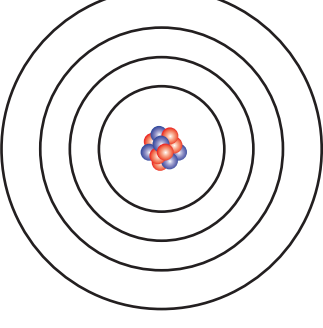
The Nuclide Symbol of an atom is given.

a) Identify the Number of Protons, Neutrons, Electrons and Valence Electrons in the spaces provided

b) Draw the Lewis Dot Diagram of the atom

c) Add the electrons to the Bohr Diagram

|    | Nuclide Symbol           | a) $p^+$ , $n^0$ , $e^-$ & $ve^-$   | b) Lewis Dot Diagram | c) Bohr Diagram |
|----|--------------------------|---|----------------------|-----------------|
| 1. | ${}^3_1\text{H}$         | _____ # of protons<br>_____ # of neutrons<br>_____ # of electrons<br>_____ # of valence electrons | <b>H</b>             |                 |
| 2. | ${}^{10}_4\text{Be}$     | _____ # of protons<br>_____ # of neutrons<br>_____ # of electrons<br>_____ # of valence electrons | <b>Be</b>            |                 |
| 3. | ${}^9_4\text{Be}^{+2}$   | _____ # of protons<br>_____ # of neutrons<br>_____ # of electrons<br>_____ # of valence electrons | <b>Be</b>            |                 |
| 4. | ${}^{14}_6\text{C}$      | _____ # of protons<br>_____ # of neutrons<br>_____ # of electrons<br>_____ # of valence electrons | <b>C</b>             |                 |
| 5. | ${}^{14}_6\text{C}^{+4}$ | _____ # of protons<br>_____ # of neutrons<br>_____ # of electrons<br>_____ # of valence electrons | <b>C</b>             |                 |

|     | Nuclide Symbol             | a) p <sup>+</sup> , n <sup>°</sup> , e <sup>-</sup> & ve <sup>-</sup>                             | b) Lewis Dot Diagram | c) Bohr Diagram   |
|-----|----------------------------|---|----------------------|---|
| 6.  | $^{32}_{15}\text{P}$       | _____ # of protons<br>_____ # of neutrons<br>_____ # of electrons<br>_____ # of valence electrons | <b>P</b>             |    |
| 7.  | $^{32}_{15}\text{P}^{-3}$  | _____ # of protons<br>_____ # of neutrons<br>_____ # of electrons<br>_____ # of valence electrons | <b>P</b>             |    |
| 8.  | $^{80}_{35}\text{Br}$      | _____ # of protons<br>_____ # of neutrons<br>_____ # of electrons<br>_____ # of valence electrons | <b>Br</b>            |   |
| 9.  | $^{80}_{35}\text{Br}^{-1}$ | _____ # of protons<br>_____ # of neutrons<br>_____ # of electrons<br>_____ # of valence electrons | <b>Br</b>            |  |
| 10. | $^{84}_{36}\text{Kr}$      | _____ # of protons<br>_____ # of neutrons<br>_____ # of electrons<br>_____ # of valence electrons | <b>Kr</b>            |  |